

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP 03/04547

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H05B41/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H05B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 96 27278 A (PHILIPS ELECTRONICS NV ;PHILIPS NORDEN AB (SE)) 6 September 1996 (1996-09-06) figure 2	1-20
A	EP 0 933 977 A (HELLA KG HUECK & CO) 4 August 1999 (1999-08-04)	
A	EP 0 891 123 A (MAGNETI MARELLI SPA) 13 January 1999 (1999-01-13)	

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

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Date of the actual completion of the international search

12 December 2003

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08/01/2004

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# INTERNATIONAL SEARCH REPORT

in on patent family members

International Application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9627278	A	06-09-1996	AT 196051 T 15-09-2000
			CA 2189265 A1 06-09-1996
			CN 1150883 A , B 28-05-1997
			DE 69610049 D1 05-10-2000
			DE 69610049 T2 12-04-2001
			EP 0758520 A1 19-02-1997
			ES 2152010 T3 16-01-2001
			WO 9627278 A1 06-09-1996
			JP 9512952 T 22-12-1997
			US 6028401 A 22-02-2000
			US 5828186 A 27-10-1998
EP 0933977	A	04-08-1999	DE 19803855 A1 05-08-1999
			EP 0933977 A2 04-08-1999
EP 0891123	A	13-01-1999	IT T0970628 A1 11-01-1999
			EP 0891123 A1 13-01-1999